

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A hub dynamo for a bicycle, having a stator and a rotor, the stator fixed to the axle side, comprising:

a pair of main iron cores, each formed of a ring-like plate member and member, disposed at the stator ends to form a coil chamber therebetween;

at least one sub iron core formed of a ring-like plate member and disposed between the pair of main iron cores facing each other to partition the coil chamber, the main iron cores and the at least one sub iron core making up a set of iron cores;

a coil wire wound in the partitioned coil chambers; and

magnetic flux collectors formed of an elongated member extending between the main iron cores, disposed in parallel with each other in the peripheral direction on the outer circumference of the iron cores, which are the magnetic flux collectors closely facing elongated permanent magnets aligned and disposed on the inner circumference of the rotor at the wheel side in a state that the magnetic polarity changes alternately in the peripheral direction;

wherein a first magnetic flux collector of the magnetic flux collectors facing one magnetic polarity and a second magnetic flux collector facing the other magnetic polarity are connected to the respective iron cores so as to magnetize the adjacent iron cores to an opposite polarity from each other.

2. (Currently Amended) A hub dynamo for a bicycle, having a stator and a rotor, the stator fixed to axle side, comprising:

a pair of main iron cores, each formed of a ring-like plate member and member, disposed at the stator ends to form a coil chamber;

at least one sub iron core formed of a ring-like plate member and disposed between the pair of main iron cores ~~facing each other~~ to partition the coil chamber, the main iron core and the at least one sub iron core making up a set of iron cores;

a coil wire wound in the partitioned coil chambers; and

magnetic flux collectors formed of an elongated member extending between the main iron cores, disposed in parallel with each other in the peripheral direction on the outer circumference of the iron cores, which ~~are closely facing face~~ elongated permanent magnets disposed on the inner circumference of the rotor at the wheel side in a state that the magnetic polarity changes alternately in the peripheral ~~direction; direction,~~

wherein a first magnetic flux collector of the magnetic flux collectors facing one magnetic polarity and a second magnetic flux collector facing the other magnetic polarity are connected to the respective iron cores so as to magnetize the adjacent iron cores to an opposite polarity from each other,

magnetic paths for the adjacent coil chambers partitioned by the at least one sub iron core are formed by the at least one sub iron core.

3. (Currently Amended) The hub dynamo according to ~~claim 1 or 2, claim 1,~~ wherein the first magnetic flux collector is connected to the main iron core at one end side of the axle and ~~the iron cores of to~~ every other iron core with respect to moving away from the side main iron core,

the second magnetic flux collector is connected to the iron cores unconnected to the first magnetic flux collector.

4. (Currently Amended) The hub dynamo according to ~~any of claims 1 to 3,~~ claim 1, wherein the coil wire wound in each coil chamber is arranged so that the directions of the adjacent winding wires in adjacent coil chambers are opposite each other.

5. (Currently Amended) The hub dynamo according to ~~any of claims 1 to 4, claim 1,~~ wherein the coil wire wound in each coil chamber is continuously wound in order from the coil chamber at the end side in the axial direction.

6. (Currently Amended) The hub dynamo according to ~~any of claims 1 to 5, claim 1,~~ wherein the magnetic flux collectors are fixed to projecting pieces formed on the outer circumference of each iron core by means of caulking.

7. (Currently Amended) The hub dynamo according to claim 6, wherein, on the outer circumference of each iron core, ~~a concave portion is concave portions and convex portions are formed between the convex portions adjacent alternatively~~ in the peripheral direction and each of the iron cores adjacent in the axial direction is disposed in a state that the convex ~~portion~~ portions of one iron core and the concave ~~portion~~ portions of an adjacent iron core face each other in the axial direction.

8. (Currently Amended) The hub dynamo according to claim 7, wherein, in each of the iron cores, a pull-out groove for pulling out the coil wire to the outside is formed to be elongated in the diameter direction and the pull-out groove is formed in a position formed with one of the concave portion portions.

9. (Currently Amended) The hub dynamo according to ~~any of claims 1 to 8, claim 1,~~ wherein ~~the~~ each magnetic flux collector is an elongated plate member and the direction of the plate width of the plate member ~~faces~~ is oriented to the peripheral direction with respect to ~~of the main iron core cores and subsidiary iron core sub iron cores.~~

10. The hub dynamo according to claim 9, wherein the each magnetic flux collector is formed so that the cross-sectional area thereof becomes larger toward a connecting portion with ~~the~~ at least one iron core.

11. (Currently Amended) The hub dynamo according to ~~claim 9 or 10, claim 9,~~ wherein the each magnetic flux collector is formed so that the width of the plate becomes wider toward a connecting portion with ~~the~~at least one iron core.

12. (Currently Amended) The hub dynamo according to ~~any of claims 1 to 11, claim 1,~~ wherein the sub iron ~~core is~~cores are formed ~~with~~of a plurality of laminated thin plate members being laminatedmembers.

13. The hub dynamo according to ~~any of claims 1 to 12, claim 1,~~ wherein the main iron ~~core is~~cores are each formed ~~with~~of a plurality of laminated thin plate members being laminatedmembers.

14. (New) The hub dynamo according to claim 2, wherein the first magnetic flux collector is connected to the main iron core at one end side of the axle and to every other iron core moving away from the side main iron core,

the second magnetic flux collector is connected to the iron cores unconnected to the first magnetic flux collector.

15. (New) The hub dynamo according to claim 14, wherein the coil wire wound in each coil chamber is arranged so that the directions of the winding wires in adjacent coil chambers are opposite each other.

16. (New) The hub dynamo according to claim 14, wherein the coil wire wound in each coil chamber is continuously wound in order from the coil chamber at the end side in the axial direction.

17. (Currently Amended) The hub dynamo according to claim 14, wherein the magnetic flux collectors are fixed to projecting pieces formed on the outer circumference of each iron core by means of caulking.

18. (New) The hub dynamo according to claim 15, wherein each magnetic flux collector is an elongated plate member and the width of the plate member faces to the peripheral direction of the main iron cores and sub iron cores.

19. (New) The hub dynamo according to claim 2, wherein the sub iron cores are formed of a plurality of laminated thin plate members.

20. (New) The hub dynamo according to claim 2, wherein the main iron cores are each formed of a plurality of laminated thin plate members.